

**Change Request Number: 11IHR003**

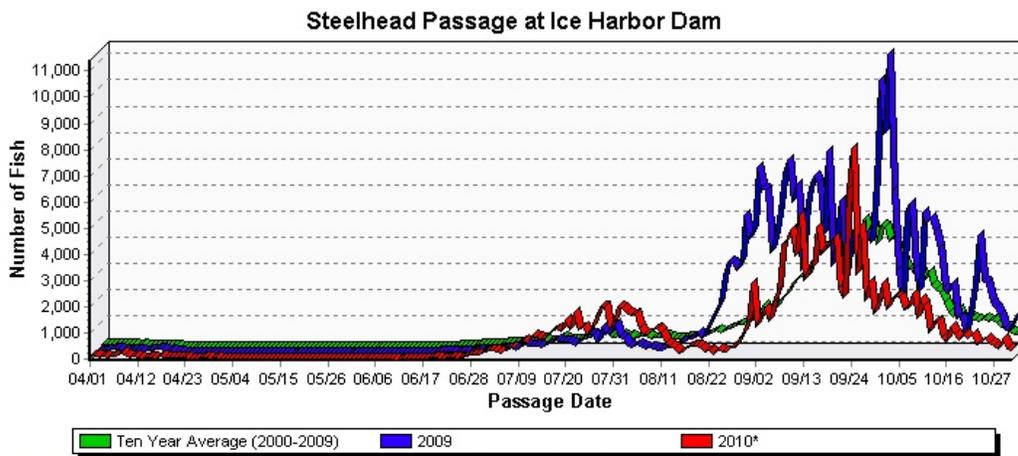
**Date:** December 15, 2010

**Proposed by:** David Benner, FPC

**Location of Change-** IHR 4.3

**Proposed Change:** 9B4.3. Turbine Unit Maintenance. The project turbine unit maintenance schedule will be reviewed annually by project and Operations Division biologists for fish impacts. If possible, maintenance of priority units will be scheduled for non-fish passage periods, or when there are low numbers of fish passing the project. Each turbine unit requires annual maintenance that may take from several days to two weeks. Annual maintenance of all turbine units is normally scheduled during the mid-July to late November time frame. The maintenance of priority units for adult passage is normally conducted in **November or December but can be conducted in** mid-August. ~~if few adults are migrating or are expected to approach Ice Harbor Dam (based on downstream counts), when fewer adults are migrating, to minimize impacts on~~ **Impacts to migrating adults should be minimized.** Turbine units may occasionally require overhauls to repair major problems with the turbine or generator. Overhauls may take over one year to accomplish. Turbine units, governors, exciters, and control systems require periodic maintenance, calibration, and testing which may take them outside of the 1% turbine efficiency range. This work will be scheduled in compliance with BPA load shaping guidelines (Appendix C) to minimize impacts on juvenile fish.

**Reason for Change:** 2009 saw a sharp increase in steelhead numbers in mid-August at IHR. McNary had language that also had November or December as options for maintaining priority units for adult passage.



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**Comments from others:**

USFWS- support with given or similar language.

**Record of Final Action: Approved January 21 2011.**